



Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 22-23S-34E Gazelle B3MD Fed Com #1H

Gazelle 22 B3MD Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

05 July, 2018



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Gazelle 22 B3MD Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Site:	Section 22-23S-34E Gazelle B3MD Fed Com #1H	MD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Well:	Gazelle 22 B3MD Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea County N. M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Section 22-23S-34E Gazelle B3MD Fed Com #1H			
Site Position:		Northing:	467,922.80 usft	Latitude:	32° 17' 0.245 N
From:	Map	Easting:	809,985.30 usft	Longitude:	103° 27' 50.487 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	Gazelle 22 B3MD Fed Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	467,922.80 usft	Latitude:	32° 17' 0.245 N
	+E/-W	0.0 usft	Easting:	809,985.30 usft	Longitude:	103° 27' 50.487 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	27.0 usft	Ground Level:	3,491.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/25/2018	6.81	60.12	47,887.86226471

Design	Original Hole				
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	1.11

Survey Program		Date	7/5/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1,032.0	16,240.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
934.0	0.83	229.63	934.0	1.4	0.0	1.4	0.00	0.00	0.00
1,032.0	0.60	19.70	1,032.0	1.4	-0.3	1.4	1.41	-0.23	153.13
1,124.0	0.40	350.10	1,124.0	2.2	-0.2	2.2	0.35	-0.22	-32.17
1,217.0	0.50	341.60	1,217.0	2.9	-0.4	2.9	0.13	0.11	-9.14
1,311.0	0.70	11.40	1,311.0	3.9	-0.4	3.8	0.39	0.21	31.70
1,404.0	0.60	13.60	1,404.0	4.9	-0.2	4.9	0.11	-0.11	2.37
1,498.0	0.80	16.30	1,498.0	6.0	0.1	6.0	0.22	0.21	2.87
1,591.0	0.70	14.90	1,591.0	7.2	0.4	7.2	0.11	-0.11	-1.51
1,685.0	0.70	10.60	1,684.9	8.3	0.7	8.3	0.06	0.00	-4.57
1,778.0	0.90	353.50	1,777.9	9.6	0.7	9.6	0.33	0.22	-18.39

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Gazelle 22 B3MD Fed Com #1H
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Site:	Section 22-23S-34E Gazelle B3MD Fed Com #1H	MD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Well:	Gazelle 22 B3MD Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,871.0	0.80	7.00	1,870.9	10.9	0.7	10.9	0.24	-0.11	14.52
1,965.0	0.90	353.40	1,964.9	12.3	0.7	12.3	0.24	0.11	-14.47
2,058.0	0.70	10.60	2,057.9	13.6	0.7	13.6	0.33	-0.22	18.49
2,152.0	0.70	5.30	2,151.9	14.7	0.9	14.8	0.07	0.00	-5.64
2,245.0	0.90	1.80	2,244.9	16.0	1.0	16.1	0.22	0.22	-3.76
2,338.0	0.30	134.90	2,337.9	16.6	1.2	16.6	1.21	-0.65	143.12
2,431.0	0.90	148.70	2,430.9	15.8	1.7	15.8	0.66	0.65	14.84
2,525.0	0.90	150.40	2,524.9	14.5	2.5	14.6	0.03	0.00	1.81
2,618.0	0.90	135.00	2,617.9	13.4	3.3	13.4	0.26	0.00	-16.56
2,712.0	1.00	130.90	2,711.8	12.3	4.5	12.4	0.13	0.11	-4.36
2,805.0	1.10	123.00	2,804.8	11.3	5.8	11.4	0.19	0.11	-8.49
2,898.0	0.40	167.80	2,897.8	10.5	6.7	10.6	0.93	-0.75	48.17
2,992.0	0.40	195.10	2,991.8	9.9	6.6	10.0	0.20	0.00	29.04
3,085.0	0.20	180.50	3,084.8	9.4	6.6	9.5	0.23	-0.22	-15.70
3,178.0	0.30	117.40	3,177.8	9.1	6.8	9.2	0.30	0.11	-67.85
3,272.0	0.40	92.40	3,271.8	9.0	7.3	9.1	0.19	0.11	-26.60
3,365.0	0.40	89.20	3,364.8	9.0	8.0	9.1	0.02	0.00	-3.44
3,459.0	1.10	234.20	3,458.8	8.4	7.6	8.6	1.54	0.74	154.26
3,552.0	2.10	231.70	3,551.8	6.9	5.5	7.0	1.08	1.08	-2.69
3,646.0	1.10	250.70	3,645.7	5.5	3.3	5.6	1.19	-1.06	20.21
3,739.0	0.40	249.10	3,738.7	5.1	2.2	5.1	0.75	-0.75	-1.72
3,833.0	0.40	135.50	3,832.7	4.7	2.1	4.8	0.71	0.00	-120.85
3,926.0	1.40	126.00	3,925.7	3.8	3.2	3.9	1.08	1.08	-10.22
4,020.0	1.90	120.70	4,019.7	2.4	5.5	2.5	0.56	0.53	-5.64
4,113.0	1.50	169.50	4,112.6	0.4	7.0	0.5	1.56	-0.43	52.47
4,207.0	1.70	176.30	4,206.6	-2.2	7.4	-2.1	0.29	0.21	7.23
4,301.0	1.10	92.10	4,300.6	-3.6	8.3	-3.5	2.05	-0.64	-89.57
4,394.0	2.50	73.00	4,393.5	-3.1	11.2	-2.9	1.62	1.51	-20.54
4,487.0	3.30	82.50	4,486.4	-2.1	15.8	-1.8	1.00	0.86	10.22
4,581.0	2.20	107.80	4,580.3	-2.3	20.2	-1.9	1.72	-1.17	26.91
4,674.0	1.90	95.50	4,673.2	-3.0	23.4	-2.6	0.57	-0.32	-13.23
4,767.0	1.30	78.30	4,766.2	-3.0	26.0	-2.5	0.82	-0.65	-18.49
4,861.0	0.90	79.80	4,860.2	-2.6	27.7	-2.1	0.43	-0.43	1.60
4,954.0	0.70	61.70	4,953.2	-2.2	29.0	-1.7	0.34	-0.22	-19.46
5,038.0	0.90	61.30	5,037.2	-1.7	30.0	-1.1	0.24	0.24	-0.48
5,111.0	0.60	87.80	5,110.2	-1.4	30.9	-0.8	0.62	-0.41	36.30
5,142.0	0.70	76.70	5,141.2	-1.3	31.2	-0.7	0.52	0.32	-35.81
5,235.0	1.70	300.70	5,234.2	-0.5	30.6	0.1	2.43	1.08	-146.24
5,329.0	5.10	279.80	5,328.0	0.9	25.3	1.4	3.79	3.62	-22.23
5,422.0	4.40	269.30	5,420.7	1.6	17.6	1.9	1.20	-0.75	-11.29
5,516.0	4.00	243.80	5,514.4	0.1	11.1	0.3	2.01	-0.43	-27.13
5,609.0	4.20	229.70	5,607.2	-3.5	5.6	-3.4	1.10	0.22	-15.16

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,702.0	4.30	231.80	5,699.9	-7.9	0.2	-7.9	0.20	0.11	2.26
5,795.0	4.10	229.70	5,792.7	-12.2	-5.0	-12.3	0.27	-0.22	-2.26
5,889.0	4.60	254.70	5,886.4	-15.4	-11.2	-15.6	2.07	0.53	26.60
5,982.0	4.60	256.20	5,979.1	-17.2	-18.5	-17.6	0.13	0.00	1.61
6,075.0	5.00	257.40	6,071.8	-19.0	-26.0	-19.5	0.44	0.43	1.29
6,168.0	4.70	258.70	6,164.5	-20.6	-33.7	-21.3	0.34	-0.32	1.40
6,261.0	5.10	248.00	6,257.1	-22.9	-41.3	-23.7	1.07	0.43	-11.51
6,354.0	5.30	249.40	6,349.7	-26.0	-49.1	-26.9	0.25	0.22	1.51
6,448.0	5.50	249.80	6,443.3	-29.1	-57.4	-30.2	0.22	0.21	0.43
6,540.0	5.80	233.50	6,534.9	-33.4	-65.3	-34.6	1.77	0.33	-17.72
6,633.0	5.20	230.00	6,627.4	-38.9	-72.3	-40.3	0.74	-0.65	-3.76
6,726.0	5.20	232.90	6,720.1	-44.1	-78.9	-45.6	0.28	0.00	3.12
6,819.0	4.80	230.20	6,812.7	-49.2	-85.3	-50.8	0.50	-0.43	-2.90
6,913.0	4.70	230.00	6,906.4	-54.1	-91.2	-55.9	0.11	-0.11	-0.21
7,006.0	4.90	229.60	6,999.1	-59.2	-97.2	-61.0	0.22	0.22	-0.43
7,098.0	5.30	229.80	7,090.7	-64.5	-103.4	-66.4	0.44	0.43	0.22
7,191.0	4.80	238.20	7,183.3	-69.3	-110.0	-71.4	0.96	-0.54	9.03
7,285.0	4.80	241.70	7,277.0	-73.2	-116.8	-75.5	0.31	0.00	3.72
7,378.0	4.50	234.80	7,369.7	-77.2	-123.2	-79.5	0.68	-0.32	-7.42
7,471.0	4.60	232.40	7,462.4	-81.5	-129.1	-84.0	0.23	0.11	-2.58
7,564.0	4.00	238.50	7,555.1	-85.5	-134.9	-88.1	0.81	-0.65	6.56
7,657.0	3.50	234.10	7,648.0	-88.9	-139.9	-91.6	0.62	-0.54	-4.73
7,751.0	4.30	238.50	7,741.7	-92.4	-145.3	-95.2	0.91	0.85	4.68
7,844.0	3.70	234.10	7,834.5	-96.0	-150.7	-98.9	0.72	-0.65	-4.73
7,937.0	4.20	244.80	7,927.3	-99.2	-156.2	-102.2	0.96	0.54	11.51
8,030.0	4.00	248.00	8,020.0	-101.9	-162.3	-105.0	0.33	-0.22	3.44
8,123.0	3.70	240.90	8,112.8	-104.5	-167.9	-107.8	0.61	-0.32	-7.63
8,217.0	3.70	256.70	8,206.6	-106.7	-173.5	-110.0	1.08	0.00	16.81
8,310.0	4.70	258.80	8,299.4	-108.1	-180.2	-111.6	1.09	1.08	2.26
8,403.0	4.50	255.50	8,392.1	-109.8	-187.4	-113.4	0.36	-0.22	-3.55
8,496.0	4.30	257.40	8,484.8	-111.5	-194.4	-115.2	0.27	-0.22	2.04
8,590.0	3.90	257.40	8,578.6	-112.9	-200.9	-116.8	0.43	-0.43	0.00
8,683.0	4.70	251.90	8,671.3	-114.8	-207.6	-118.8	0.97	0.86	-5.91
8,777.0	3.70	255.00	8,765.1	-116.8	-214.2	-120.9	1.09	-1.06	3.30
8,870.0	3.70	254.70	8,857.9	-118.3	-220.0	-122.6	0.02	0.00	-0.32
8,964.0	5.00	252.20	8,951.6	-120.4	-226.8	-124.8	1.40	1.38	-2.66
9,057.0	4.90	255.00	9,044.3	-122.7	-234.5	-127.2	0.28	-0.11	3.01
9,150.0	4.40	251.40	9,136.9	-124.8	-241.7	-129.5	0.62	-0.54	-3.87
9,244.0	4.50	253.90	9,230.7	-127.0	-248.7	-131.8	0.23	0.11	2.66
9,337.0	5.50	243.60	9,323.3	-130.0	-256.2	-134.9	1.44	1.08	-11.08
9,431.0	5.60	240.30	9,416.9	-134.3	-264.2	-139.4	0.36	0.11	-3.51
9,524.0	6.10	236.30	9,509.4	-139.3	-272.3	-144.5	0.69	0.54	-4.30
9,618.0	5.10	239.80	9,602.9	-144.1	-280.0	-149.5	1.12	-1.06	3.72

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Well:	Gazelle 22 B3MD Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,711.0	4.40	242.10	9,695.6	-147.9	-286.8	-153.4	0.78	-0.75	2.47
9,805.0	4.00	237.80	9,789.4	-151.3	-292.7	-157.0	0.54	-0.43	-4.57
9,815.6	4.00	238.06	9,800.0	-151.7	-293.4	-157.4	0.17	0.00	2.47
B.B. Gazelle 22 B2MD Fed Com #2H (copy)									
9,898.0	4.00	240.10	9,882.1	-154.7	-298.3	-160.4	0.17	0.00	2.47
9,992.0	3.70	244.30	9,975.9	-157.6	-303.9	-163.5	0.44	-0.32	4.47
10,085.0	3.10	249.90	10,068.8	-159.8	-308.9	-165.7	0.74	-0.65	6.02
10,178.0	4.10	260.90	10,161.6	-161.2	-314.6	-167.2	1.30	1.08	11.83
10,272.0	5.00	257.80	10,255.3	-162.6	-321.9	-168.8	0.99	0.96	-3.30
10,365.0	4.80	254.50	10,347.9	-164.5	-329.6	-170.8	0.37	-0.22	-3.55
10,459.0	4.80	254.00	10,441.6	-166.6	-337.2	-173.1	0.04	0.00	-0.53
10,533.0	5.00	250.90	10,515.3	-168.5	-343.2	-175.1	0.45	0.27	-4.19
10,626.0	4.60	247.40	10,608.0	-171.3	-350.5	-178.0	0.53	-0.43	-3.76
10,720.0	4.10	251.70	10,701.7	-173.8	-357.1	-180.7	0.63	-0.53	4.57
10,813.0	4.00	252.80	10,794.5	-175.8	-363.4	-182.8	0.14	-0.11	1.18
10,907.0	1.60	264.40	10,888.4	-176.9	-367.8	-184.0	2.61	-2.55	12.34
10,938.8	1.30	263.65	10,920.2	-177.0	-368.6	-184.1	0.96	-0.96	-2.36
B.B. Gazelle 22 B3MD Fed Com 1H									
11,001.0	0.70	260.30	10,982.4	-177.1	-369.7	-184.2	0.96	-0.96	-5.39
11,062.0	1.50	8.40	11,043.4	-176.4	-370.0	-183.5	3.02	1.31	177.21
11,094.0	4.40	11.00	11,075.3	-174.7	-369.7	-181.9	9.07	9.06	8.13
11,125.0	7.10	18.60	11,106.2	-171.8	-368.8	-178.9	9.03	8.71	24.52
11,156.0	10.80	7.20	11,136.8	-167.1	-367.8	-174.2	13.18	11.94	-36.77
11,187.0	14.90	0.00	11,167.0	-160.2	-367.5	-167.3	14.17	13.23	-23.23
11,218.0	19.60	0.00	11,196.6	-151.0	-367.5	-158.1	15.16	15.16	0.00
11,249.0	23.80	0.20	11,225.4	-139.5	-367.5	-146.6	13.55	13.55	0.65
11,280.0	27.40	0.80	11,253.3	-126.2	-367.3	-133.3	11.64	11.61	1.94
11,311.0	32.20	1.20	11,280.2	-110.8	-367.1	-117.9	15.50	15.48	1.29
11,343.0	37.10	359.10	11,306.6	-92.6	-367.0	-99.7	15.76	15.31	-6.56
11,374.0	40.70	356.80	11,330.7	-73.1	-367.8	-80.2	12.51	11.61	-7.42
11,405.0	44.90	355.20	11,353.4	-52.1	-369.2	-59.3	13.99	13.55	-5.16
11,436.0	48.70	356.50	11,374.6	-29.6	-370.9	-36.8	12.63	12.26	4.19
11,467.0	51.50	358.20	11,394.5	-5.8	-372.0	-13.0	9.96	9.03	5.48
11,498.0	55.70	359.80	11,412.9	19.1	-372.4	11.9	14.17	13.55	5.16
11,530.0	60.70	1.00	11,429.8	46.3	-372.2	39.1	15.95	15.63	3.75
11,561.0	63.70	0.80	11,444.2	73.7	-371.8	66.5	9.69	9.68	-0.65
11,592.0	68.30	0.60	11,456.8	102.0	-371.4	94.8	14.85	14.84	-0.65
11,601.4	69.75	0.51	11,460.2	110.8	-371.3	103.5	15.51	15.48	-0.99
LP Gazelle 22 B3MD Fed Com #1H									
11,623.0	73.10	0.30	11,467.1	131.3	-371.2	124.0	15.51	15.48	-0.96
11,655.0	75.80	0.50	11,475.7	162.1	-371.0	154.9	8.46	8.44	0.63
11,686.0	78.80	1.90	11,482.5	192.3	-370.3	185.1	10.63	9.68	4.52
11,717.0	82.60	1.60	11,487.5	222.9	-369.4	215.7	12.30	12.26	-0.97

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Gazelle 22 B3MD Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Site:	Section 22-23S-34E Gazelle B3MD Fed Com #1H	MD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Well:	Gazelle 22 B3MD Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,748.0	85.80	0.70	11,490.6	253.7	-368.8	246.5	10.72	10.32	-2.90
11,782.0	88.10	359.80	11,492.4	287.7	-368.6	280.5	7.26	6.76	-2.65
11,847.0	89.40	359.40	11,493.8	352.7	-369.1	345.4	2.09	2.00	-0.62
11,941.0	89.80	358.80	11,494.5	446.6	-370.6	439.4	0.77	0.43	-0.64
12,034.0	88.90	358.80	11,495.5	539.6	-372.5	532.3	0.97	-0.97	0.00
12,128.0	90.40	359.90	11,496.1	633.6	-373.6	626.2	1.98	1.60	1.17
12,221.0	90.40	359.90	11,495.5	726.6	-373.7	719.2	0.00	0.00	0.00
12,315.0	89.30	0.70	11,495.7	820.6	-373.2	813.2	1.45	-1.17	0.85
12,408.0	90.40	0.90	11,496.0	913.6	-371.9	906.2	1.20	1.18	0.22
12,502.0	90.10	1.80	11,495.6	1,007.6	-369.7	1,000.2	1.01	-0.32	0.96
12,595.0	89.70	2.30	11,495.7	1,100.5	-366.4	1,093.2	0.69	-0.43	0.54
12,689.0	90.10	1.00	11,495.9	1,194.5	-363.7	1,187.2	1.45	0.43	-1.38
12,782.0	89.90	359.20	11,495.9	1,287.5	-363.5	1,280.2	1.95	-0.22	-1.94
12,875.0	89.80	359.00	11,496.1	1,380.4	-365.0	1,373.1	0.24	-0.11	-0.22
12,968.0	90.00	359.30	11,496.3	1,473.4	-366.4	1,466.1	0.39	0.22	0.32
13,062.0	89.90	358.60	11,496.4	1,567.4	-368.1	1,560.0	0.75	-0.11	-0.74
13,156.0	88.80	358.60	11,497.4	1,661.4	-370.4	1,653.9	1.17	-1.17	0.00
13,250.0	90.70	359.00	11,497.8	1,755.4	-372.4	1,747.8	2.07	2.02	0.43
13,343.0	90.20	358.90	11,497.1	1,848.3	-374.1	1,840.7	0.55	-0.54	-0.11
13,436.0	90.20	358.90	11,496.8	1,941.3	-375.8	1,933.7	0.00	0.00	0.00
13,530.0	90.20	359.30	11,496.5	2,035.3	-377.3	2,027.6	0.43	0.00	0.43
13,623.0	90.00	359.30	11,496.3	2,128.3	-378.5	2,120.6	0.22	-0.22	0.00
13,717.0	89.50	358.90	11,496.7	2,222.3	-379.9	2,214.5	0.68	-0.53	-0.43
13,811.0	91.20	358.90	11,496.1	2,316.3	-381.7	2,308.4	1.81	1.81	0.00
13,904.0	89.90	359.20	11,495.2	2,409.2	-383.3	2,401.4	1.43	-1.40	0.32
13,998.0	89.50	359.70	11,495.7	2,503.2	-384.2	2,495.3	0.68	-0.43	0.53
14,092.0	89.30	359.50	11,496.7	2,597.2	-384.8	2,589.3	0.30	-0.21	-0.21
14,185.0	90.90	0.40	11,496.6	2,690.2	-384.9	2,682.3	1.97	1.72	0.97
14,279.0	91.50	0.50	11,494.6	2,784.2	-384.2	2,776.2	0.65	0.64	0.11
14,373.0	89.70	0.50	11,493.6	2,878.2	-383.4	2,870.2	1.91	-1.91	0.00
14,466.0	89.30	0.70	11,494.4	2,971.2	-382.4	2,963.2	0.48	-0.43	0.22
14,561.0	89.80	0.50	11,495.2	3,066.2	-381.4	3,058.2	0.57	0.53	-0.21
14,654.0	90.10	359.70	11,495.2	3,159.2	-381.2	3,151.2	0.92	0.32	-0.86
14,748.0	88.90	359.50	11,496.1	3,253.2	-381.9	3,245.1	1.29	-1.28	-0.21
14,842.0	90.20	359.10	11,496.8	3,347.2	-383.0	3,339.1	1.45	1.38	-0.43
14,935.0	89.60	359.10	11,497.0	3,440.1	-384.5	3,432.0	0.65	-0.65	0.00
15,029.0	90.20	359.60	11,497.1	3,534.1	-385.6	3,526.0	0.83	0.64	0.53
15,123.0	89.90	359.40	11,497.0	3,628.1	-386.4	3,620.0	0.38	-0.32	-0.21
15,217.0	90.30	359.00	11,496.9	3,722.1	-387.7	3,713.9	0.60	0.43	-0.43
15,311.0	90.50	359.90	11,496.2	3,816.1	-388.6	3,807.9	0.98	0.21	0.96
15,405.0	90.00	0.60	11,495.8	3,910.1	-388.2	3,901.8	0.92	-0.53	0.74
15,500.0	88.80	0.70	11,496.8	4,005.1	-387.1	3,996.8	1.27	-1.26	0.11

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Gazelle 22 B3MD Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Site:	Section 22-23S-34E Gazelle B3MD Fed Com #1H	MD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Well:	Gazelle 22 B3MD Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,594.0	89.60	359.50	11,498.1	4,099.1	-387.0	4,090.8	1.53	0.85	-1.28
15,688.0	90.50	357.70	11,498.0	4,193.1	-389.2	4,184.7	2.14	0.96	-1.91
15,783.0	90.60	357.30	11,497.1	4,288.0	-393.4	4,279.5	0.43	0.11	-0.42
15,877.0	90.00	357.60	11,496.6	4,381.9	-397.6	4,373.3	0.71	-0.64	0.32
15,971.0	89.80	357.50	11,496.8	4,475.8	-401.6	4,467.1	0.24	-0.21	-0.11
16,065.0	89.60	0.50	11,497.3	4,569.8	-403.2	4,561.1	3.20	-0.21	3.19
16,159.0	89.80	358.20	11,497.8	4,663.7	-404.3	4,655.0	2.46	0.21	-2.45
16,183.0	90.00	358.30	11,497.8	4,687.7	-405.0	4,679.0	0.93	0.83	0.42
16,240.0	90.00	358.30	11,497.8	4,744.7	-406.7	4,735.9	0.00	0.00	0.00

16240.0' MD Projected to Bit - PBHL Gazelle 22 B3MD Fed Com #1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,240.0	11,497.8	4,744.7	-406.7	16240.0' MD Projected to Bit



September 11, 2018

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

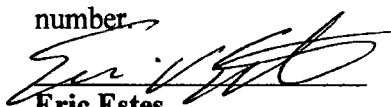
Re: Mewbourne Oil Company
Gazelle 22 B3MD Federal Com #001H
Antelope Ridge; Bone Spring, West
Lea County, New Mexico
API# 30-025-43397

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
David Calabrese	Original Hole	1,032ft. to 16,183ft.	06-17-18 to 07-05-18	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

number.


Eric Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Gazelle 22 B3MD Fed Com #001HM181082

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



September 11, 2018

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of June 6, 2018, through July 5, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,032 feet to a depth of 16,183 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Gazelle 22 B3MD Fed Com #1H, well API # **30-025-43397** in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163**



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 22-23S-34E Gazelle B3MD Fed Com #1H
Well: Gazelle 22 B3MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B3MD Fed Com #1H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Lea County N. M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 22-23S-34E Gazelle B3MD Fed Com #1H		
Site Position:		Northing:	467,922.80 usft
From:	Map	Easting:	809,985.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 0.245 N
		Longitude:	103° 27' 50.487 W
		Grid Convergence:	0.46 °

Well	Gazelle 22 B3MD Fed Com #1H		
Well Position	+N-S	0.0 usft	Northing: 467,922.80 usft
	+E-W	0.0 usft	Easting: 809,985.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 17' 0.245 N
		Longitude:	103° 27' 50.487 W
		Ground Level:	3,491.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	5/25/2018	6.81
			Dip Angle (°) 60.12
			Field Strength (nT) 47,887.86226471

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase: ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)
	0.0	0.0	0.0
			Direction (°) 1.11

Survey Program	Date 7/5/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
1,032.0	16,240.0	MWD Survey (Original Hole)	MWD
			Description MWD v3:standard declination



Microsoft MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 22-23S-34E Gazelle B3MD Fed Com #1H
Well: Gazelle 22 B3MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B3MD Fed Com #1H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
934.0	0.83	229.63	934.0	2,584.0	1.4	0.1	1.4	2.05
934.0' MD Phoenix Gyro								
1,032.0	0.60	19.70	1,032.0	2,486.0	1.4	-0.3	1.5	347.41
1,124.0	0.40	350.10	1,124.0	2,394.0	2.2	-0.2	2.2	354.51
1,217.0	0.50	341.60	1,217.0	2,301.0	2.9	-0.4	2.9	352.25
1,311.0	0.70	11.40	1,311.0	2,207.0	3.9	-0.4	3.9	353.91
1,404.0	0.60	13.60	1,404.0	2,114.0	4.9	-0.2	4.9	357.84
1,498.0	0.80	16.30	1,498.0	2,020.0	6.0	0.1	6.0	1.11
1,591.0	0.70	14.90	1,591.0	1,927.0	7.2	0.4	7.2	3.55
1,685.0	0.70	10.60	1,684.9	1,833.1	8.3	0.7	8.3	4.82
1,778.0	0.90	353.50	1,777.9	1,740.1	9.6	0.7	9.6	4.30
1,871.0	0.80	7.00	1,870.9	1,647.1	10.9	0.7	11.0	3.75
1,965.0	0.90	353.40	1,964.9	1,553.1	12.3	0.7	12.3	3.30
2,058.0	0.70	10.60	2,057.9	1,460.1	13.6	0.7	13.6	3.08
2,152.0	0.70	5.30	2,151.9	1,366.1	14.7	0.9	14.8	3.46
2,245.0	0.90	1.80	2,244.9	1,273.1	16.0	1.0	16.1	3.45
2,338.0	0.30	134.90	2,337.9	1,180.1	16.6	1.2	16.6	4.00
2,431.0	0.90	148.70	2,430.9	1,087.1	15.8	1.7	15.9	6.19
2,525.0	0.90	150.40	2,524.9	993.1	14.5	2.5	14.7	9.62
2,618.0	0.90	135.00	2,617.9	900.1	13.4	3.3	13.8	14.02
2,712.0	1.00	130.90	2,711.8	806.2	12.3	4.5	13.1	19.99
2,805.0	1.10	123.00	2,804.8	713.2	11.3	5.8	12.7	27.35
2,898.0	0.40	167.80	2,897.8	620.2	10.5	6.7	12.4	32.40
2,992.0	0.40	195.10	2,991.8	526.2	9.9	6.6	11.9	33.99
3,085.0	0.20	180.50	3,084.8	433.2	9.4	6.6	11.4	34.96
3,178.0	0.30	117.40	3,177.8	340.2	9.1	6.8	11.3	36.64
3,272.0	0.40	92.40	3,271.8	246.2	9.0	7.3	11.6	39.19



Microsoft MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 22-23S-34E Gazelle B3MD Fed Com #1H
Well: Gazelle 22 B3MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B3MD Fed Com #1H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
3,365.0	0.40	89.20	3,364.8	153.2	9.0	8.0	12.0	41.62
3,459.0	1.10	234.20	3,458.8	59.2	8.4	7.6	11.3	41.85
3,552.0	2.10	231.70	3,551.8	-33.8	6.9	5.5	8.8	38.70
3,646.0	1.10	250.70	3,645.7	-127.7	5.5	3.3	6.4	30.95
3,739.0	0.40	249.10	3,738.7	-220.7	5.1	2.2	5.5	22.93
3,833.0	0.40	135.50	3,832.7	-314.7	4.7	2.1	5.2	23.67
3,926.0	1.40	126.00	3,925.7	-407.7	3.8	3.2	5.0	40.01
4,020.0	1.90	120.70	4,019.7	-501.7	2.4	5.5	6.0	66.66
4,113.0	1.50	169.50	4,112.6	-594.6	0.4	7.0	7.1	86.86
4,207.0	1.70	176.30	4,206.6	-688.6	-2.2	7.4	7.7	106.76
4,301.0	1.10	92.10	4,300.6	-782.6	-3.6	8.3	9.1	113.56
4,394.0	2.50	73.00	4,393.5	-875.5	-3.1	11.2	11.6	105.40
4,487.0	3.30	82.50	4,486.4	-968.4	-2.1	15.8	15.9	97.72
4,581.0	2.20	107.80	4,580.3	-1,062.3	-2.3	20.2	20.3	96.60
4,674.0	1.90	95.50	4,673.2	-1,155.2	-3.0	23.4	23.6	97.37
4,767.0	1.30	78.30	4,766.2	-1,248.2	-3.0	26.0	26.1	96.51
4,861.0	0.90	79.80	4,860.2	-1,342.2	-2.6	27.7	27.9	95.39
4,954.0	0.70	61.70	4,953.2	-1,435.2	-2.2	29.0	29.0	94.38
5,038.0	0.90	61.30	5,037.2	-1,519.2	-1.7	30.0	30.0	93.16
5,111.0	0.60	87.80	5,110.2	-1,592.2	-1.4	30.9	30.9	92.54
5,142.0	0.70	76.70	5,141.2	-1,623.2	-1.3	31.2	31.3	92.42
5,235.0	1.70	300.70	5,234.2	-1,716.2	-0.5	30.6	30.6	90.90
5,329.0	5.10	279.80	5,328.0	-1,810.0	0.9	25.3	25.3	87.87
5,422.0	4.40	269.30	5,420.7	-1,902.7	1.6	17.6	17.7	84.81
5,516.0	4.00	243.80	5,514.4	-1,996.4	0.1	11.1	11.1	89.43
5,609.0	4.20	229.70	5,607.2	-2,089.2	-3.5	5.6	6.6	122.29
5,702.0	4.30	231.80	5,699.9	-2,181.9	-7.9	0.2	7.9	178.25



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Wellbore: Original Hole
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
5,795.0	4.10	229.70	5,792.7	-2,274.7	-12.2	-5.0	13.2	202.44
5,889.0	4.60	254.70	5,886.4	-2,368.4	-15.4	-11.2	19.0	216.18
5,982.0	4.60	256.20	5,979.1	-2,461.1	-17.2	-18.5	25.2	226.96
6,075.0	5.00	257.40	6,071.8	-2,553.8	-19.0	-26.0	32.2	233.86
6,168.0	4.70	258.70	6,164.5	-2,646.5	-20.6	-33.7	39.5	238.53
6,261.0	5.10	248.00	6,257.1	-2,739.1	-22.9	-41.3	47.2	240.95
6,354.0	5.30	249.40	6,349.7	-2,831.7	-26.0	-49.1	55.6	242.13
6,448.0	5.50	249.80	6,443.3	-2,925.3	-29.1	-57.4	64.4	243.15
6,540.0	5.80	233.50	6,534.9	-3,016.9	-33.4	-65.3	73.3	242.94
6,633.0	5.20	230.00	6,627.4	-3,109.4	-38.9	-72.3	82.1	241.74
6,726.0	5.20	232.90	6,720.1	-3,202.1	-44.1	-78.9	90.4	240.79
6,819.0	4.80	230.20	6,812.7	-3,294.7	-49.2	-85.3	98.4	240.04
6,913.0	4.70	230.00	6,906.4	-3,388.4	-54.1	-91.2	106.1	239.31
7,006.0	4.90	229.60	6,999.1	-3,481.1	-59.2	-97.2	113.8	238.66
7,098.0	5.30	229.80	7,090.7	-3,572.7	-64.5	-103.4	121.9	238.06
7,191.0	4.80	238.20	7,183.3	-3,665.3	-69.3	-110.0	130.0	237.80
7,285.0	4.80	241.70	7,277.0	-3,759.0	-73.2	-116.8	137.9	237.92
7,378.0	4.50	234.80	7,369.7	-3,851.7	-77.2	-123.2	145.4	237.94
7,471.0	4.60	232.40	7,462.4	-3,944.4	-81.5	-129.1	152.7	237.73
7,564.0	4.00	238.50	7,555.1	-4,037.1	-85.5	-134.9	159.7	237.62
7,657.0	3.50	234.10	7,648.0	-4,130.0	-88.9	-139.9	165.8	237.58
7,751.0	4.30	238.50	7,741.7	-4,223.7	-92.4	-145.3	172.2	237.54
7,844.0	3.70	234.10	7,834.5	-4,316.5	-96.0	-150.7	178.6	237.50
7,937.0	4.20	244.80	7,927.3	-4,409.3	-99.2	-156.2	185.0	237.58
8,030.0	4.00	248.00	8,020.0	-4,502.0	-101.9	-162.3	191.6	237.88
8,123.0	3.70	240.90	8,112.8	-4,594.8	-104.5	-167.9	197.8	238.09
8,217.0	3.70	256.70	8,206.6	-4,688.6	-106.7	-173.5	203.7	238.41



Microsoft
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Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B3MD Fed Com #1H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
8,310.0	4.70	258.80	8,299.4	-4,781.4	-108.1	-180.2	210.1	239.03
8,403.0	4.50	255.50	8,392.1	-4,874.1	-109.8	-187.4	217.2	239.64
8,498.0	4.30	257.40	8,484.8	-4,966.8	-111.5	-194.4	224.0	240.17
8,590.0	3.90	257.40	8,578.6	-5,060.6	-112.9	-200.9	230.5	240.66
8,683.0	4.70	251.90	8,671.3	-5,153.3	-114.8	-207.6	237.2	241.06
8,777.0	3.70	255.00	8,765.1	-5,247.1	-116.8	-214.2	244.0	241.40
8,870.0	3.70	254.70	8,857.9	-5,339.9	-118.3	-220.0	249.8	241.72
8,964.0	5.00	252.20	8,951.6	-5,433.6	-120.4	-226.8	256.8	242.04
9,057.0	4.90	255.00	9,044.3	-5,526.3	-122.7	-234.5	264.7	242.39
9,150.0	4.40	251.40	9,136.9	-5,618.9	-124.8	-241.7	272.1	242.69
9,244.0	4.50	253.90	9,230.7	-5,712.7	-127.0	-248.7	279.3	242.95
9,337.0	5.50	243.60	9,323.3	-5,805.3	-130.0	-256.2	287.3	243.10
9,431.0	5.60	240.30	9,416.9	-5,898.9	-134.3	-264.2	296.4	243.06
9,524.0	6.10	236.30	9,509.4	-5,991.4	-139.3	-272.3	305.8	242.91
9,618.0	5.10	239.80	9,602.9	-6,084.9	-144.1	-280.0	315.0	242.77
9,711.0	4.40	242.10	9,695.6	-6,177.6	-147.9	-286.8	322.7	242.72
9,805.0	4.00	237.80	9,789.4	-6,271.4	-151.3	-292.7	329.5	242.66
9,815.6	4.00	238.06	9,800.0	-6,282.0	-151.7	-293.4	330.3	242.65
B.B. Gazelle 22 B2MD Fed Com #2H (copy)								
9,898.0	4.00	240.10	9,882.1	-6,364.1	-154.7	-298.3	336.0	242.59
9,992.0	3.70	244.30	9,975.9	-6,457.9	-157.6	-303.9	342.3	242.58
10,085.0	3.10	249.90	10,068.8	-6,550.8	-159.8	-308.9	347.8	242.65
10,178.0	4.10	260.90	10,161.6	-6,643.6	-161.2	-314.6	353.5	242.87
10,272.0	5.00	257.80	10,255.3	-6,737.3	-162.6	-321.9	360.6	243.20
10,365.0	4.80	254.50	10,347.9	-6,829.9	-164.5	-329.6	368.4	243.48
10,459.0	4.80	254.00	10,441.6	-6,923.6	-166.6	-337.2	376.1	243.71
10,533.0	5.00	250.90	10,515.3	-6,997.3	-168.5	-343.2	382.3	243.85



Microsoft
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Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B3MD Fed Com #1H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,628.0	4.60	247.40	10,608.0	-7,090.0	-171.3	-350.5	390.1	243.96
10,720.0	4.10	251.70	10,701.7	-7,183.7	-173.8	-357.1	397.2	244.05
10,813.0	4.00	252.80	10,794.5	-7,276.5	-175.8	-363.4	403.7	244.19
10,907.0	1.60	264.40	10,888.4	-7,370.4	-176.9	-367.8	408.1	244.32
10,938.8	1.30	263.65	10,920.2	-7,402.2	-177.0	-368.6	408.9	244.36
B.B. Gazelle 22 B3MD Fed Com 1H								
11,001.0	0.70	260.30	10,982.4	-7,464.4	-177.1	-369.7	409.9	244.40
11,062.0	1.50	8.40	11,043.4	-7,525.4	-176.4	-370.0	409.8	244.51
11,094.0	4.40	11.00	11,075.3	-7,557.3	-174.7	-369.7	408.9	244.70
11,125.0	7.10	18.60	11,106.2	-7,588.2	-171.8	-368.8	406.9	245.03
11,156.0	10.80	7.20	11,136.8	-7,618.8	-167.1	-367.8	404.0	245.57
11,187.0	14.90	0.00	11,167.0	-7,649.0	-160.2	-367.5	400.9	246.45
11,218.0	19.60	0.00	11,196.6	-7,678.6	-151.0	-367.5	397.3	247.66
11,249.0	23.80	0.20	11,225.4	-7,707.4	-139.5	-367.5	393.1	249.21
11,280.0	27.40	0.80	11,253.3	-7,735.3	-126.2	-367.3	388.4	251.05
11,311.0	32.20	1.20	11,280.2	-7,762.2	-110.8	-367.1	383.4	253.21
11,343.0	37.10	359.10	11,306.6	-7,788.6	-92.6	-367.0	378.5	255.84
11,374.0	40.70	356.80	11,330.7	-7,812.7	-73.1	-367.8	375.0	258.75
11,405.0	44.90	355.20	11,353.4	-7,835.4	-52.1	-369.2	372.9	261.97
11,436.0	48.70	356.50	11,374.6	-7,856.6	-29.6	-370.9	372.0	265.44
11,467.0	51.50	358.20	11,394.5	-7,876.5	-5.8	-372.0	372.0	269.10
11,498.0	55.70	359.80	11,412.9	-7,894.9	19.1	-372.4	372.9	272.94
11,530.0	60.70	1.00	11,429.8	-7,911.8	46.3	-372.2	375.0	277.09
11,561.0	63.70	0.80	11,444.2	-7,926.2	73.7	-371.8	379.0	281.22
11,592.0	68.30	0.60	11,456.8	-7,938.8	102.0	-371.4	385.2	285.36
11,601.4	69.75	0.51	11,460.2	-7,942.2	110.8	-371.3	387.5	286.61

LP Gazelle 22 B3MD Fed Com #1H



Microsoft MWD Surveys



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Site: Section 22-23S-34E Gazelle B3MD Fed Com #1H
Well: Gazelle 22 B3MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B3MD Fed Com #1H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,623.0	73.10	0.30	11,467.1	-7,949.1	131.3	-371.2	393.7	289.48
11,655.0	75.80	0.50	11,475.7	-7,957.7	162.1	-371.0	404.8	293.60
11,686.0	78.80	1.90	11,482.5	-7,964.5	192.3	-370.3	417.3	297.44
11,717.0	82.60	1.60	11,487.5	-7,969.5	222.9	-369.4	431.4	301.11
11,748.0	85.80	0.70	11,490.6	-7,972.6	253.7	-368.8	447.6	304.53
11,782.0	88.10	359.80	11,492.4	-7,974.4	287.7	-368.6	467.6	307.97
11,847.0	89.40	359.40	11,493.8	-7,975.8	352.7	-369.1	510.5	313.70
11,941.0	89.80	358.80	11,494.5	-7,976.5	446.6	-370.6	580.3	320.32
12,034.0	88.90	358.80	11,495.5	-7,977.5	539.6	-372.5	655.7	325.38
12,128.0	90.40	359.90	11,496.1	-7,978.1	633.6	-373.6	735.5	329.48
12,221.0	90.40	359.90	11,495.5	-7,977.5	726.6	-373.7	817.1	332.78
12,315.0	89.30	0.70	11,495.7	-7,977.7	820.6	-373.2	901.5	335.54
12,408.0	90.40	0.90	11,496.0	-7,978.0	913.6	-371.9	986.4	337.85
12,502.0	90.10	1.80	11,495.6	-7,977.6	1,007.6	-369.7	1,073.3	339.85
12,595.0	89.70	2.30	11,495.7	-7,977.7	1,100.5	-366.4	1,159.9	341.59
12,689.0	90.10	1.00	11,495.9	-7,977.9	1,194.5	-363.7	1,248.6	343.07
12,782.0	89.90	359.20	11,495.9	-7,977.9	1,287.5	-363.5	1,337.8	344.23
12,875.0	89.80	359.00	11,496.1	-7,978.1	1,380.4	-365.0	1,427.9	345.19
12,968.0	90.00	359.30	11,496.3	-7,978.3	1,473.4	-366.4	1,518.3	346.04
13,062.0	89.90	358.60	11,496.4	-7,978.4	1,567.4	-368.1	1,610.1	346.78
13,156.0	88.80	358.60	11,497.4	-7,979.4	1,661.4	-370.4	1,702.2	347.43
13,250.0	90.70	359.00	11,497.8	-7,979.8	1,755.4	-372.4	1,794.4	348.02
13,343.0	90.20	358.90	11,497.1	-7,979.1	1,848.3	-374.1	1,885.8	348.56
13,436.0	90.20	358.90	11,496.8	-7,978.8	1,941.3	-375.8	1,977.4	349.04
13,530.0	90.20	359.30	11,496.5	-7,978.5	2,035.3	-377.3	2,070.0	349.50
13,623.0	90.00	359.30	11,496.3	-7,978.3	2,128.3	-378.5	2,161.7	349.92
13,717.0	89.50	358.90	11,496.7	-7,978.7	2,222.3	-379.9	2,254.5	350.30



Microsoft
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Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,811.0	91.20	358.90	11,496.1	-7,978.1	2,316.3	-381.7	2,347.5	350.64
13,904.0	89.90	359.20	11,495.2	-7,977.2	2,409.2	-383.3	2,439.5	350.96
13,998.0	89.50	359.70	11,495.7	-7,977.7	2,503.2	-384.2	2,532.5	351.27
14,092.0	89.30	359.50	11,496.7	-7,978.7	2,597.2	-384.8	2,625.6	351.57
14,185.0	90.90	0.40	11,496.6	-7,978.6	2,690.2	-384.9	2,717.6	351.86
14,279.0	91.50	0.50	11,494.6	-7,976.6	2,784.2	-384.2	2,810.6	352.14
14,373.0	89.70	0.50	11,493.6	-7,975.6	2,878.2	-383.4	2,903.6	352.41
14,466.0	89.30	0.70	11,494.4	-7,976.4	2,971.2	-382.4	2,995.7	352.67
14,561.0	89.80	0.50	11,495.2	-7,977.2	3,066.2	-381.4	3,089.8	352.91
14,654.0	90.10	359.70	11,495.2	-7,977.2	3,159.2	-381.2	3,182.1	353.12
14,748.0	88.90	359.50	11,496.1	-7,978.1	3,253.2	-381.9	3,275.5	353.30
14,842.0	90.20	359.10	11,496.8	-7,978.8	3,347.2	-383.0	3,369.0	353.47
14,935.0	89.60	359.10	11,497.0	-7,979.0	3,440.1	-384.5	3,461.6	353.62
15,029.0	90.20	359.60	11,497.1	-7,979.1	3,534.1	-385.6	3,555.1	353.77
15,123.0	89.90	359.40	11,497.0	-7,979.0	3,628.1	-386.4	3,648.6	353.92
15,217.0	90.30	359.00	11,496.9	-7,978.9	3,722.1	-387.7	3,742.3	354.05
15,311.0	90.50	359.90	11,496.2	-7,978.2	3,816.1	-388.6	3,835.8	354.19
15,405.0	90.00	0.60	11,495.8	-7,977.8	3,910.1	-388.2	3,929.3	354.33
15,500.0	88.80	0.70	11,496.8	-7,978.8	4,005.1	-387.1	4,023.8	354.48
15,594.0	89.60	359.50	11,498.1	-7,980.1	4,099.1	-387.0	4,117.3	354.61
15,688.0	90.50	357.70	11,498.0	-7,980.0	4,193.1	-389.2	4,211.1	354.70
15,783.0	90.60	357.30	11,497.1	-7,979.1	4,288.0	-393.4	4,306.0	354.76
15,877.0	90.00	357.60	11,496.6	-7,978.6	4,381.9	-397.6	4,399.9	354.82
15,971.0	89.80	357.50	11,496.8	-7,978.8	4,475.8	-401.6	4,493.8	354.87
16,065.0	89.60	0.50	11,497.3	-7,979.3	4,569.8	-403.2	4,587.5	354.96
16,159.0	89.80	358.20	11,497.8	-7,979.8	4,663.7	-404.3	4,681.2	355.05
16,183.0	90.00	358.30	11,497.8	-7,979.8	4,687.7	-405.0	4,705.2	355.06



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Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
16,240.0	90.00	358.30	11,497.8	-7,979.8	4,744.7	-406.7	4,762.1	355.10

16240.0' MD Projected to Bit - PBHL-Gazelle 22 B3MD Fed Com #1H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
934.0	934.0	1.4	0.1	934.0' MD Phoenix Gyro
16,240.0	11,497.8	4,744.7	-406.7	16240.0' MD Projected to Bit